

SECRET

25X1

R 151843Z NOV 68
 FM NPIC WASHDC
 TO RUEOJFA/DIA (DIAXX-2)
 RUEOJFA/JCS (JRC)
 RUEFHQA/HQ USAF FOR AFNICAD & AFRDRP
 RHCOAAA/SAC (DIR)
 RHCOAAA/544TH ARTW OFFUTT AFB
 RUWMDDA/9 SRW (DCI)
 RUHHHQA/CINCPAC
 RUHHBRA/CINCPACFLT
 RUHHABA/CINCPACAF (DIR)
 RUHHRGA/CINCUSARPAC

out 66405

RUCIFGA/AERONAUTICAL SYSTEMS DIV (ASZB), WPAFB OHIO
 BT

S E C R E T [] CITE NPIC 5051.

SUBJECT: EVALUATION OF GIANT SCALE MISSION S-069 FLOWN 20 OCTOBER 1968

1. QUALITY SUMMARY: THE OVERALL QUALITY OF THIS MISSION IS COMPARABLE TO RECENT GIANT SCALE MISSIONS. CLOUDS AND HAZE OBSCURE OR DEGRADE APPROXIMATELY 75 PERCENT OF THE IMAGERY. PHOTO INTERPRETATION

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TION SUITABILITY IS CONSIDERED TO BE GOOD. EMPIRICAL GROUND RESOLUTION ESTIMATES OF THE BEST IMAGERY AT OPERATIONAL ALTITUDE ARE AS FOLLOWS:

- A. LEFT TECHNICAL OBJECTIVE CAMERA
 - B. RIGHT TECHNICAL OBJECTIVE CAMERA
 - C. LEFT OPERATIONAL OBJECTIVE CAMERA
 - D. RIGHT OPERATIONAL OBJECTIVE CAMERA
2. ANALYSIS OF TECHNICAL OBJECTIVE CAMERA
- A. COMMENTS APPLICABLE TO BOTH CAMERAS:

(1) AFTER LONG CAMERA OFFS (1 HOUR OR LONGER DURATION) THE IMAGERY EXHIBITS PROGRESSIVE DEGRADATION. THE CAUSE OF DEGRADATION IS UNKNOWN ALTHOUGH THE IMAGERY APPEARS TO BE OUT OF FOCUS AND COULD BE CAUSED BY CONDENSATION, THERMAL CHANGES, ETC. THE IMAGERY OF THE RIGHT TECHNICAL OBJECTIVE CAMERA MATERIAL COULD NOT BE EVALUATED AFTER THE SECOND LONG CAMERA OFF BECAUSE OF CLOUD COVER.

- B. LEFT TECHNICAL OBJECTIVE CAMERA (S/N 64-19)

(1) IMAGE DEGRADATION IS PRESENT AT THE BEGINNING OF SLIT MOVEMENT, WHEN THE SLIT MOVED TOWARD THE DATA BLOCK FOR THAT PARTICULAR FRAME. THE DEGRADED IMAGERY IS LOCATED WITHIN THE FIRST 1.0 INCH OF SLIT TRAVEL AND WITHIN 1.5 INCHES OF EACH

ADVANCE CY
 SANITIZED
 WITH TEXT

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EDGE OF THE FORMAT; I.E., THE IMAGERY NEAR THE CENTER OF THE FORMAT APPEARS NORMAL. THE IMAGERY INDICATES THAT THERE MIGHT HAVE BEEN INADEQUATE VACUUM OR PART OF THE FILM WAS NOT IN POSITION AT THE BEGINNING OF THE EXPOSURE.

(2) A CIRCULAR REFRACTIVE PATTERN EMITTING FROM THE CENTER OF FORMAT IS DETECTABLE AT THE START OF THE MISSION. THIS PHENOMENON IS ONLY NOTICEABLE IN AREAS OF NEUTRAL CONTRAST AND CANNOT BE DETECTED AFTER FRAME 171. A TWO INCH THIN MINUS DENSITY STREAK, PARALLEL TO THE MINOR AXIS AND LOCATED IN THE CENTER OF FORMAT, IS PRESENT THROUGHOUT THE MISSION. MISSION 8250C WAS EVALUATED AGAIN

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Group 1
 Excluded from automatic
 downgrading and
 declassification

— 2 —

TO DETERMINE IF THIS CIRCULAR REFRACTIVE PATTERN IS PRESENT. THE PHENOMENON COULD NOT BE DETECTED BUT THIS MAY HAVE BEEN BECAUSE OF THE LACK OF AREAS OF NEUTRAL CONTRAST.

(3) RESOLUTION BANDING (SUBTLE CHANGES IN QUALITY ALONG LINES PARALLEL TO THE SLIT) IS NOTED IN SOME PORTIONS OF THE FILM. THIS IS PROBABLY DUE TO INDUCED VIBRATION.

C. RIGHT TECHNICAL OBJECTIVE CAMERA (S/N 6404)

(1) NO UNUSUAL ANOMALIES.

3. ANALYSIS OF OPERATIONAL OBJECTIVE CAMERAS

A. COMMENTS APPLICABLE TO BOTH CAMERAS:

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(1) NO UNUSUAL ANOMALIES.

B. LEFT OPERATIONAL OBJECTIVE CAMERA (S/N 4023)

(1) NO UNUSUAL ANOMALIES.

C. RIGHT OPERATIONAL OBJECTIVE CAMERA (S/N 4018):

(1) THE AFT LOOKING IMAGERY BETWEEN 0 AND 20 DEGREES OF SCAN IS NOT AS SHARP AS THE FORWARD LOOKING IMAGERY. THE REMAINDER OF THE AFT FRAME IS OF NORMAL QUALITY FOR THIS CAMERA. THE CAUSE OF THIS ANOMALY COULD NOT BE DETERMINED, BUT IT ALSO OCCURRED ON MISSION 8250C.

4. ALTHOUGH S-069 IS ONE OF THE BEST IN THE GIANT SCALE SERIES THE IMAGERY IS NOT QUITE AS GOOD AS THE IMAGERY ON MISSION 8250C.
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END OF MESSAGE